



Leslie Heppler <lheppler@utah.gov>

Draft Review of Browns Canyon

1 message

**E-MAILED**

Leslie Heppler <lheppler@utah.gov>

Wed, May 4, 2016 at 2:37 PM

To: jimosorensen@gmail.com

Cc: Paul Baker <paulbaker@utah.gov>, Kim Coburn <kcoburn@epiceng.net>

Jim -

The attached review is a **draft** copy of the OGM review of your latest submittal received on April 8, 2016. The edited copy of the review will be finalized, signed and sent out as soon as possible. Certain portions of the review are incomplete at this time, due to either lack of information, incomplete information, or inconsistent data in the NOI.

The following areas of the permit have not been reviewed at this time:

- Equipment Storage Areas
- Surety Calculation
- In addition a final review will need to be done from cover to cover

All of the above sections will be reviewed in your finalized, signed review.

It is the goal of OGM to send out the most thorough and detailed review possible as per R647-4-101. 1.

If you have any further questions please don't hesitate to call me at [801-538-5257](tel:801-538-5257) thx-lah

Utah Division of Oil, Gas & Mining

Office hours - Mon thru Fri 8-5

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Leslie Heppler

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Thank you for reading this electronic correspondence.

Please consider the environment before printing.

**REV5-7312-04192016-emailcopy.docx**

57K



E-MAILED

May 4, 2016

Jim Sorensen
Brown Canyon Stone Works, LLC
7684 Whileaway Road
Park City, Utah 84098

Subject: Division Directive and Fifth Review of Notice of Intention to Commence Large Mining Operations, Brown's Canyon Stone Works, LLC, Brown's Canyon Rock Quarry Mine, M/043/0021, Summit County, Utah

Dear Mr. Sorensen:

The Division of Oil, Gas and Mining has completed a review of the referenced Notice of Intention to Commence Large Mining Operations (Notice) which was received February 8, 2016. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion and include the location in the document where the text has been update. Please address items requested in the attached technical review.

Please submit your response to this review by June 5, 2016.

The Division will suspend further review of the Notice until receiving your response to this review. Please contact the appropriate reviewer with questions about the review: Leslie Heppler (lah) at 801-538-5257, April Abate (aa) at 801-538-5214, Mike Bradley (mpb) at 801-538-5332, Wayne Western (whw) at 801-538-5263, or me (pbb) at 801-538-5261. Thank you for your cooperation in completing this permitting action.

Sincerely,

Paul B. Baker
Minerals Program Manager

PBB: lah: eb
Attachment: Review
cc: Summit County (SLewis@summitcounty.org)
O:\M043-Summit\M0430021-BrownsCyn-StoneWorks\Draft\REV5-7312-04192016-emailcopy.docx

**Fifth REVIEW OF NOTICE OF INTENTION
TO COMMENCE LARGE MINING OPERATIONS
Jim Sorensen-Brown Canyon Stone Works, LLC
Browns Canyon Stone Works Mine
M/043/0021
May 4, 2016**

General Comments:

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
1		Any areas of future expansion will need to have a cultural resource survey before being disturbed (comment only; no specific response needed).	pbb	
2				
3	Table of Content	New comment - Please include a place holder in the Appendices for the Conditional Use permit from the county.	lah	

R647-4-104 – Operator Information and Surface and Mineral Ownership

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
4	Page 2 #7.	Please provide more information regarding the Mineral Rights, as current County Plat map differs.	lah	

R647-4-105 - Maps, Drawings & Photographs

105.1 - Topographic base map, boundaries, pre-act disturbance

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
5	Page 4 Item b.	<i>Previous comment - Rock Overburden/Waste Dump Sites are not shown on Exhibit B.</i> New comment – Now page 4 Item B refers to exhibit D, which is correct, but the Division needs to understand the stockpile and dumps (specifically volumes) for reclamation bond costs. Both dumps and stockpiles are usually angle of repose and rules require regrading to the post mining land use. Please either include a statement that no fill slope (dumps and stockpiles) will be left steeper 2H:1V (as per R647-4-105.3.11) or include verbiage and supporting maps on how fill slope will minimize safety hazards and erosion while providing for successful revegetation (as per R647-4-110-1)	lah lah	

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
6	Page 6 d,e,f	<p><i>Previous comment - There are no acreage figures shown on Figure E-1; they are shown on Exhibit D.</i></p> <p>New comment – E4 is a good map to show reclamation treatments, but the map needs to include the regrading of the stockpiles, dumps and over-steepened slopes. In addition please clarify area to be topsoiled and seeded. In addition, please change “reseeding” required to “seeding”, as theoretically, if seeding is done properly, reseeding will not be needed.</p>	lah lah	

105.2 - Surface facilities map

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
7	Page 6	<p><i>Previous comment: Text will need to be modified to match changes in the maps</i></p> <p><i>Previous comment - All maps do not include the angle of repose slopes northwest of the equipment area, that need to be topsoiled and reseeded</i></p> <p><i>Previous comment – As requested above, a cross section through the slope will clearly show the fill to be added and will enable a volume calculation for bonding purposes.</i></p> <p>New comment – Thank you for including cross section D-D’, as noted below please continue the section to extend down the embankment/fill slope to the toe of the slope which will enable volume calculations for bonding purposes.</p>	lah lah lah	
8	Page 5	It is unclear to me why the text was changed, as there is the facilities and topsoil stockpiles on Exhibit D.	lah	

105.3 - Drawings or Cross Sections (slopes, roads, pads, etc.)

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
new	Exhibit E1, E2 and E4	The access to the “staging/equipment area is cut off. Is a new road to be built? In addition please provide proper documentation relating to public safety (ie state road) and slope stability of the highwall.	lah	
new	Exhibit E1 and E3	Cross section D-D’ needs to extend down the embankment/fill slope to the toe of the slope.	lah	
new	Exhibit E2	Cross sections are mislabeled – A-A’ is actually B-B’ (according to Exhibit E1) and B-B’ is actually A-A’ Change one or the other. In addition on the long section should show the slight drainage in exhibit I - ie show arrows with the % grade labeled on the arrow.	lah	
new	Exhibit E3	Profile D-D has a slope angle labeled as a “min” and not as a maximum. Please correct the typo as the Division is principally concerned with slope angle maximums.	lah	
new	Exhibit E4	Exhibit E4 and text on page 6 #e are not consistent. Please make update E4 to match text.	lah	

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
new	Figure F	Legend notes 20' contour interval, but map is shown as 40' contour intervals, please correct typo in the legend. In addition please add the location of the geologic cross section on the map.	lah	

R647-4-106 - Operation Plan

106.3 - Estimated acreages disturbed, reclaimed, annually/sequentially

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
16				

106.8 - Depth to groundwater, extent of overburden, geologic setting

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
new	Page 13 Para 3	New comment: The text notes "If groundwater is encountered during mining operations then mining operations will be stopped immediately and contact will be made with the Division of Oil, Gas and Mining for further guidance." The NOI currently being reviewed is the Operators plan for reclamation and it is the Operators responsibility to investigate and design for both groundwater inflow and surface water before it is a problem. In addition there are several other Local, State and Federal agencies with requirements relating to surface and groundwater.	lah	
new	12-13	The first paragraph discussing stormwater and impacts to surface waters would be better located under Section 109.1, Impacts to surface and groundwater systems. Please keep the groundwater discussion under 106.8	mpb lah	

R647-4-109 - Impact Assessment

109.1 – Projected impacts to surface & groundwater systems

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
new	Page 15	Please provide a copy of the final version of the industrial SWPPP permit issued once it becomes available for inclusion in the NOI. The Division needs a valid, up-to-date copy of the permit issued through the Division of Water Quality in order to approve an expansion to the Notice.	aa	

109.4 – Projected impacts on slope stability, erosion control, air quality, public health and safety

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action

R647-4-110 - Reclamation Plan

Fifth Review
Page 5 of 5
M/043/0021
May 4, 2016

110.2 – Reclamation of roads, highwalls, slopes, impoundments, drainages, pits, piles, shafts, adits, etc

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action

110.5 - Revegetation planting program

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action

R647-4-113 – Surety

Comment #	Sheet/Page/Map/Table #	Comments	Initials	Review Action
25				
26				
27				
28				
29				
30				